

COATING COMPOSITION AND PRODUCTION OF LAMINATE

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Abstract of JP8295844

PURPOSE: To obtain a coating composition comprising a specific aminoalkylalkoxysilane compound, a specific amount of a metal oxide sol, water, an organic solvent, an acid and functional fine particles, forming a coating film excellent in transparency, scratching resistance, etc. CONSTITUTION: This coating composition comprises (A) an aminoalkylalkoxysilane compound of the formula (Y is an amino group-containing organic group; Y<1> is a hydrocarbon group; R is a 1-5C alkyl; (m) is an integer of 1-5; (n) is an integer of 0-2) (especially preferably &gamma - aminopropyltriethoxysilane), (B) 0.05-0.7mol of a metal oxide sol (preferably silica gel, alumina sol, zirconia sol or titania sol) based on 1mol of the component A, (C) water, (D) an organic solvent, (E) an acid and (F) functional fine particles (preferably fluorescein fine particles) and has pH 6.5 to pH 8.0. A laminate can be obtained by coating a base with the composition and curing it.

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As the functional microperticle (f) used in the present invention, a microparticle and a pigment that have a function such as abrasion resistance, repellency, antifouling property, weather resistance, electrical conductivity, ultraviolet absorptivity, and antibacterial property are mentioned, but the functional microperticle (f) is not limited thereto. The primary particle size of the functional microperticle (f) is preferably 0.01 to 10 μm .